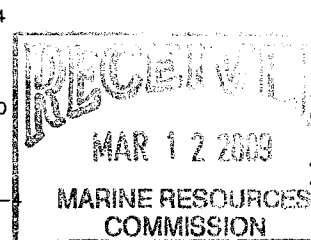
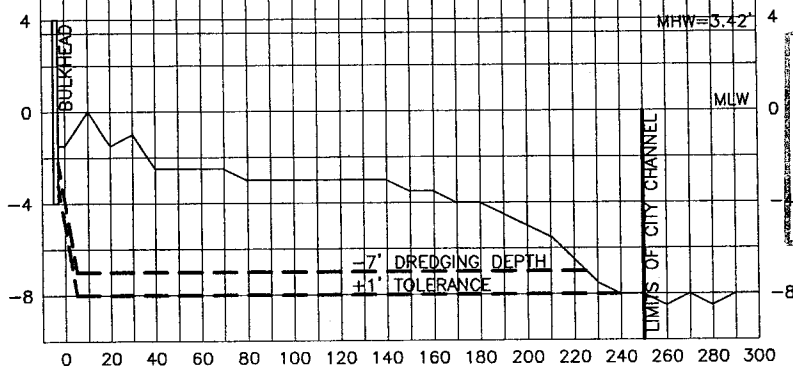
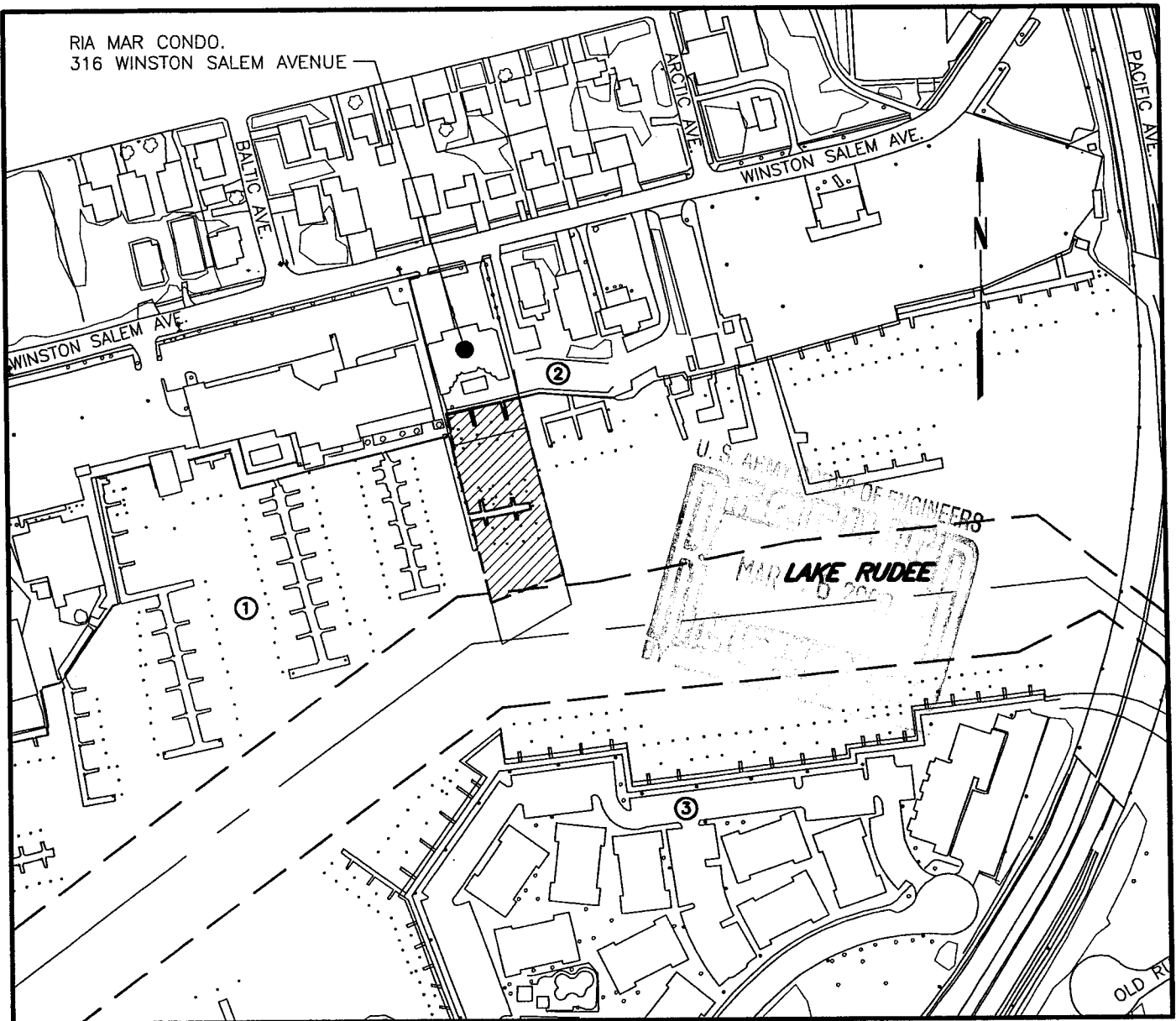


RIA MAR CONDO.  
316 WINSTON SALEM AVENUE



SECTION SCALE:  
1"=80' HOR.  
1"=8' VERT.

PURPOSE: DREDGING  
DATUM: N.O.S. MLW=0.0'  
ADJACENT PROPERTY OWNERS:  
① FISHERMAN'S WHARF  
② BEL AIRE, INC.  
③ HARBOUR POINT CONDO.

## LOCATION MAP

PREPARED BY:

*Waterway*

Surveys & Engineering, Ltd.  
Virginia Beach, Virginia

PROPOSED DREDGING  
IN: LAKE RUDEE  
CITY: VIRGINIA BEACH STATE: VIRGINIA  
APPLICATION BY: RIA MAR CONDO.

SCALE: 1"=200' DATE: MARCH 3, 2009  
SHEET 1 OF 4

MHW AND MLW ARE AT THE BULKHEAD

100'

SO 70.00'E (PLAT)

NO 70.00'W (PLAT)

2X BUFFER

4X BUFFER

U. S. ARMY CORPS OF ENGINEERS  
RECEIVED  
MAR 16 2003  
BY

RECEIVED  
MAR 12 2003  
MARINE RESOURCES COMMISSION

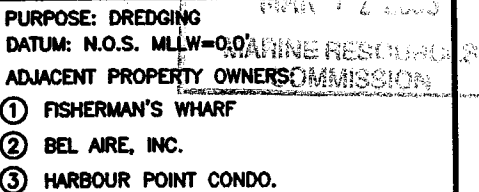
COMMONWEALTH OF VIRGINIA  
John B. Walsh  
JOHN B. WALSH  
Lic. No. 11964  
03/03/09  
PROFESSIONAL ENGINEER

U.S. ARMY CORPS OF ENGINEERS  
RECEIVED  
MAR 16 2009  
RECEIVED  
BY

RECEIVED  
MAR 12 2003  
MARINE RESOURCES  
COMMISSION

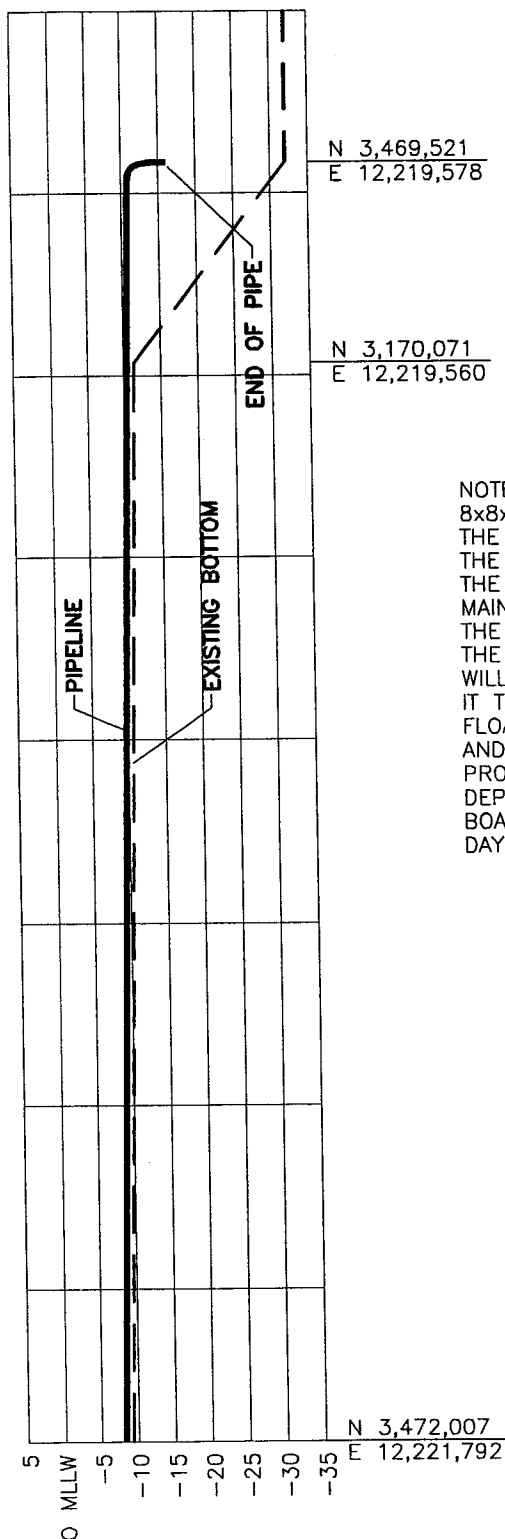
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 PROFESSIONAL ENGINEER

DATE: MARCH 3, 2009

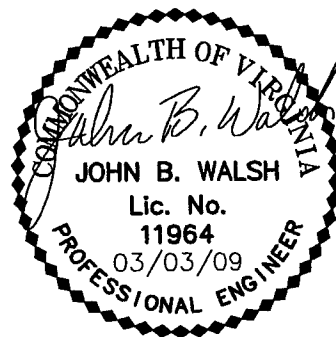
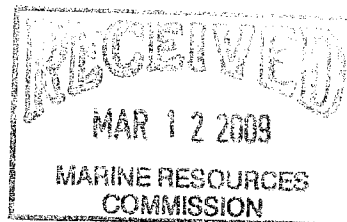


PREPARED BY:  
*Waterway*  
Surveys & Engineering, Ltd.  
Virginia Beach, Virginia

SCALE: 1"=500'      DATE: MARCH 3, 2009  
SHEET 3 OF 4



NOTE: THE PIPELINE WILL BE SECURED TO THE BOTTOM USING 8x8x16 SOLID CONCRETE BLOCK. THE BLOCKS WILL BE TIED TO THE PIPELINE AND DEPLOYED IN PAIRS. THE 8" PIPELINE AND THE BLOCKS WILL LAY ON THE BOTTOM AND CLEARANCE OVER THE PIPE WILL BE APPROXIMATELY 7 TO 9 FT. THROUGHOUT THE MAIN BODY OF LAKE RUDEE. THE BLOCKS DO NOT EXTEND ABOVE THE PIPELINE AND WILL TYPICALLY SINK INTO THE SOFTER SEDIMENT. THE PIPELINE WILL REMAIN ON THE BOTTOM AT ALL TIMES AND WILL ONLY BE BOUYANT DURING INSTALLATION AND WHEN FLUSHING IT TO MOVE IT. ONCE IN THE DISPOSAL AREA, THE PIPELINE WILL FLOAT WITH THE OUTFALL TURNED TOWARD THE BOTTOM. A BAFFLE AND SCREENING AT THE OUTFALL WILL PROVIDE WATER QUALITY PROTECTION. DURING MOVING AND INSTALLATION, A BOAT WILL BE DEPLOYED TO WATCH FOR TRAFFIC. ADDITIONALLY, THE TENDER BOAT WILL RUN THE LENGTH OF THE PIPELINE SEVERAL TIMES A DAY TO CHECK THE PIPE.



PURPOSE: DREDGING  
 DATUM: N.O.S. MLLW=0.0'  
 ADJACENT PROPERTY OWNERS:  
 ① FISHERMAN'S WHARF  
 ② BEL AIRE, INC.  
 ③ HARBOUR POINT CONDO.

## PROFILE FOR PIPELINE ROUTE

PREPARED BY:

*Waterway*

Surveys & Engineering, Ltd.  
 Virginia Beach, Virginia

PROPOSED DREDGING  
 IN: LAKE RUDEE  
 CITY: VIRGINIA BEACH STATE: VIRGINIA  
 APPLICATION BY: BEL-AIRE, INC.

SCALE: 1"=500' DATE: MARCH 3, 2009  
 SHEET 4 OF 4